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PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**In Re Application of:**

Froehler, et al.

**Serial No.:** 10/024,818

**Group Art Unit:** Not Yet Assigned

**Filing Date:** December 18, 2001

**Examiner:** Not Yet Assigned

**For:** Enhanced Triple-Helix And Double-Helix Formation With Oligomers Containing Modified Pyrimidines

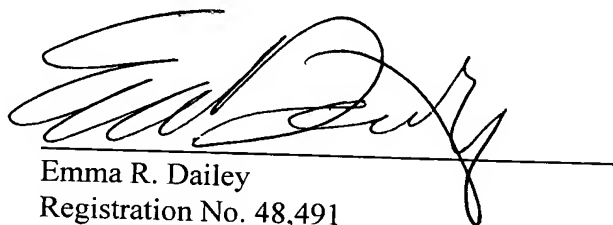
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**DATE OF DEPOSIT:** June 18, 2002

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- ☒ I hereby state that the submission filed in accordance with 37 CFR §1.821(g) does not include new matter.
- ☐ I hereby state that the submission filed in accordance with 37 CFR §1.821(h) does not include new matter or go beyond the disclosure in the international application as filed.
- ☐ I hereby state that the amendments, made in accordance with 37 CFR §1.825(a), included in the substitute sheet(s) of the Sequence Listing are supported in the application, as filed, at pages \_\_\_\_\_. I hereby state that the substitute sheet(s) of the Sequence Listing does (do) not include new matter.
- ☐ I hereby state that the substitute copy of the computer readable form, submitted in accordance with 37 CFR §1.825(b), is the same as the amended Sequence Listing.
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Date: June 18, 2002



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One Liberty Place - 46th Floor  
Philadelphia PA 19103  
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Facsimile: (215) 568-3439



## SEQUENCE LISTING

<110> Froehler, Rick  
Wagner, Rick  
Mateucci, Mark  
Jones, Robert J.  
Gutierrez, Arnold J.  
Pudlo, Jeff

<120> Enhanced Triple-Helix And Double-Helix Formation With Oligomers Containing Modified Pyrimidines

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<400> 22
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<210> '23
<211> 23
<212> DNA
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<220>
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<220>
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<220>

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23

<210> 24  
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9

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<220>
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<400> 26
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<210> 27
<211> 20
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<220>
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<400> 27  
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20

<210> 28  
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15

<210> 29  
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<212> DNA  
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<220>  
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<220>  
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<222> (11)..(12)  
<223> This position indicates a 3'-thioformacetal

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linkage (3', 5')

<220>
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linkage (3', 5')

<400> 29
tntntntntn ttttt

<210> 30
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
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<220>

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<223> This position indicates a 3'-thioformacetal  
linkage (3', 5')

<220>  
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<400> 30  
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15

<210> 31  
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<212> DNA  
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<220>  
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<223> This position is C'= 5-methyl-2'-deoxycytidine

<220>  
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<222> (6)..(6)  
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<220>  
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<220>  
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<220>  
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<222> (11)..(11)  
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<223> This position indicates a formacetal  
linkage (3', 5')

<220>  
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linkage (3',5')

<220>  
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15

<210> 32  
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<212> DNA  
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<220>  
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5-(2-Pyridinyl)-2'-Deoxyuridine

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15

<210> 33  
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<212> DNA

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 5-(2-Pyridinyl)-2'-Deoxyuridine  
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 <221> misc\_feature  
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 5-(2-Pyridinyl)-2'-Deoxyuridine



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<400> 34  
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<210> 35  
 <211> 15  
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<220>  
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<220>  
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<400> 35  
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<210> 36
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5-(2-Thienyl)-2'-Deoxyuridine

<220>
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5-(2-Thienyl)-2'-Deoxyuridine

<400> 36  
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15

<210> 37  
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<212> DNA  
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<220>  
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<220>  
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<220>  
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<220>  
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<210> 38  
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 <212> DNA  
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<220>  
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<220>  
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<220>  
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<210> 40  
 <211> 15  
 <212> DNA  
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<220>  
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<400> 40  
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<210> 41  
 <211> 17  
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<220>  
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<400> 41  
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<210> 42  
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<220>  
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<400> 42  
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<210> 43  
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<223> This position is 5-Methyl-2'-O-allyluridine

<220>
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<220>
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<400> 43
tntntntntn ttttt

<210> 44
<211> 15
<212> DNA
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<220>
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15

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<222> (2)..(2)
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<220>
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<220>
<221> misc_feature
<222> (6)..(6)
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<220>
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<220>
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<220>
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<400> 44
tntntntntn ttttt

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15

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<210> 45
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<220>
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<220>

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<220>
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<400> 45
tntntntntn ttttt                                     15

<210> 46
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<212> DNA
<213> Artificial Sequence

<220>
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<220>
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<220>
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<220>
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<220>
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<400> 46
tntntntntn ttttt                                     15

<210> 47
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<212> DNA
<213> Artificial Sequence

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<220>  
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<220>  
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15

<210> 48  
<211> 15  
<212> DNA  
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15

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<400> 49  
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<220>  
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<220>  
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28

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<220>  
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23

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<220>  
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32

<210> 53  
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<220>  
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<400> 53  
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32

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<220>  
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nnnnnnnnnn nnnnn

15